

## WHAT IS CLAIMED IS:

1. An antenna with a fixed base rotary positioning structure, comprising:
  - a fixed base, being securely erected on a tabletop or a fixed object;
  - a protrusion, with an U-shape cross section, being disposed on said fixed base, and having one open side, and the rest three sides mutually connected to enclose a chamber, and the two corresponding sides of said protrusion respectively having a pivotal hole and an arc groove;
  - an antenna, substantially in a bar shape and precisely fitting into said chamber, such that both corresponding sides at one end of the said antenna respectively comprising a pivotal axis and a protruded fixing point, and said pivotal axis and protruded fixing point being pivotally coupled to the pivotal axial hole and arc groove on both inner walls of said protrusion, thereby the pivotal axis of said antenna being used as the rotary axis to rotate and adjust said antenna to an appropriate angle by the open side of said protrusion, and said protruded fixing point moving and fixing said antenna in said arc groove to a fixed position.
2. The antenna with a fixed base rotary positioning structure of claim 1, wherein said arc groove at both end points, each comprises a fixing hole, so that after the protruded fixing point of said antenna being moved to said fixing hole for securing said antenna into a fixed position selected one from a collection of horizontal and vertical angles.
3. The antenna with a fixed base rotary positioning structure of claim 2, wherein said fixing hole collocates a plurality of fixing hole disposed on said arc groove to provide a multiple of angle and positioning after the protruded fixing point of said antenna being moved to said fixing hole.
- 25 4. The antenna with a fixed base rotary positioning structure of claim 1, wherein said two inner walls of said protrusion are hollows thereby providing an elastic clamping feature for said two inner walls, and the protruded fixing point of said antenna effectively clamping said two inner walls of said protrusion to provide a smooth movement for said protruded fixing point.

5. The antenna with a fixed base rotary positioning structure of claim 4, wherein said two inner walls of said protrusion use said pivotal hole as the center to extend an aslant groove in a direction selected one from the collection of vertical and horizontal directions to facilitate the disposition of said pivotal axis and  
5 protruded fixing point on two sides of said antenna into the fixing holes of said pivotal axial hole and said arc groove respectively.
10. The antenna with a fixed base rotary positioning structure of claim 1, wherein said antenna and protrusion comprise a linear member at the pivotal connecting end, and a linear groove disposed at the position where one of the two walls of said protrusion extends onto said fixed base, thereby said linear member is fixed into a position by said linear groove with one end extending outward.
15. The antenna with a fixed base rotary positioning structure of claim 1, wherein said fixed base at its bottom comprises an iron plate which has at least one hanging hole for hanging said fixed base on a wall, and said antenna is rotated and adjusted to an appropriate angle according to the actual requirement of the space.